

# **Certificate of Analysis**

# www.tocris.com

Print Date: Nov 3rd 2020

#### Product Name: Daunorubicin hydrochloride

Catalog No.: 1467

Batch No.: 2

23541-50-6

EC Number: 245-723-4

(8S,10S)-8-Acetyl-10-[(3-amino-2,3,6-trideoxy-α-L-lyxo-hexopyransoyl)oxy]-7,8,9,10-tetrahydro-6,8,11-trihydroxy-1-

methoxy-5,12-naphthacenedione hydrochloride

## 1. PHYSICAL AND CHEMICAL PROPERTIES

**Batch Molecular Formula: Batch Molecular Weight: Physical Appearance:** 

Solubility:

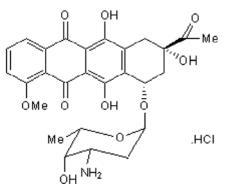
Storage:

CAS Number:

**IUPAC Name:** 

**Batch Molecular Structure:** 

C27H29NO10.HCI.1/2H2O 573 Red solid water to 50 mM Desiccate at +4°C



# 2. ANALYTICAL DATA

HPLC: <sup>1</sup>H NMR: Mass Spectrum: **Microanalysis:** 

Shows 99.2% purity Consistent with structure Consistent with structure Carbon Hydrogen Nitrogen Theoretical 56.6 5.45 2.44 Found 56.75 5.28 2.5

Caution - Not Fully Tested • Research Use Only • Not For Human or Veterinary Use

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# **Product Information**

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#### **Description:**

CAS Number:

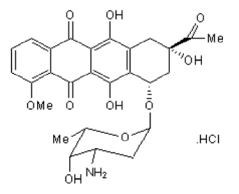
DNA topoisomerase II inhibitor. Inhibits RNA and DNA synthesis and causes DNA fragmentation in vivo. Reduces tau mRNA levels in vitro.Anticancer agent. Exhibits activity against nonlymphocytic leukemia. Identified as targeting human host proteins that interact with SARS-CoV-2. Also enhances adenoassociated virus transduction of HeLa cells in vitro.

#### **Physical and Chemical Properties:**

Batch Molecular Formula: C27H29NO10.HCl.1/2H2O Batch Molecular Weight: 573 Physical Appearance: Red solid

#### Minimum Purity: ≥98%

#### **Batch Molecular Structure:**



#### Storage: Desiccate at +4°C

### Solubility & Usage Info:

water to 50 mM

#### **Stability and Solubility Advice:**

Some solutions can be difficult to obtain and can be encouraged by rapid stirring, sonication or gentle warming (in a 45-60°C water bath).

Information concerning product stability, particularly in solution, has rarely been reported and in most cases we can only offer a general guide. Our standard recommendations are:

SOLIDS: Provided storage is as stated on the product label and the vial is kept tightly sealed, the product can be stored for up to 6 months from date of receipt.

SOLUTIONS: We recommend that stock solutions, once prepared, are stored aliquoted in tightly sealed vials at -20°C or below and used within 1 month. Wherever possible solutions should be made up and used on the same day.

### **References:**

Gordon et al (2020) A SARS-CoV-2-human protein-protein interaction map reveals drug targets and potential drug-repurposing. Nature 583. PMID: 32353859.

Nicolson et al (2016) Identification and validation of small molecules that enhance recombinant adeno-associated virus transduction following high-throughput screens. J.Virol. 90 7019. PMID: 27147738 .

Pommier et al (2010) DNA topoisomerases and their poisoning by anticancer and antibacterial drugs. Chem.Biol. 17 421. PMID: 20534341.

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